

isc Silicon NPN Power Transistor

DESCRIPTION

- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 160V(Min)
- · High Power Dissipation
- Complement to Type 2SA1215
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

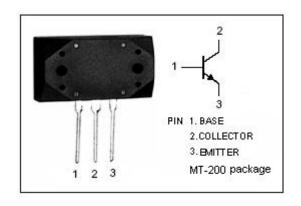


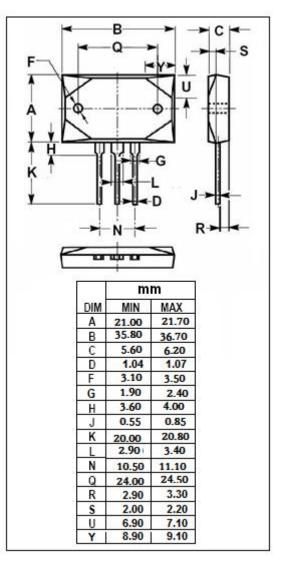
APPLICATIONS

• For audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
Vсво	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	15	A
I _B	Base Current-Continuous	4	A
Pc	Collector Power Dissipation @ T _C =25℃	150	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C





0.35

 μ S



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2SC2921

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	160			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			2.0	V	
Ісво	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			100	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			100	μА	
h _{FE}	DC Current Gain	I _C = 5A; V _{CE} = 4V	50		180		
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		200		pF	
f _T	Current-Gain—Bandwidth Product	I _E = -2A; V _{CE} = 12V	10			MHz	
Switching times							
t _{on}	Turn-on Time			0.2		μS	
t _{stg}	Storage Time	I_{C} = 5A; R_{L} = 12 Ω , I_{B1} = - I_{B2} = 0.5A, V_{CC} = 60V		1.5		μ \$	

♦ h_{FE} Classifications

0	Р	Y
50-100	70-140	90-180

Fall Time

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